DEVELOPING/MAINTAINING AN ENVIRONMENTAL PROGRAM IN A CONTINGENCY OPERATION

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			Form Approved
Report Documentation Page			*Form Approved* *OMB No. 0704-0188*

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1. REPORT DATE **JUN 2010**	2. REPORT TYPE	3. DATES COVERED **00-00-2010 to 00-00-2010**
4. TITLE AND SUBTITLE **Developing/Maintaining an Environmental Program in Contingency Operation**		5a. CONTRACT NUMBER
		5b. GRANT NUMBER
		5c. PROGRAM ELEMENT NUMBER
6. AUTHOR(S)		5d. PROJECT NUMBER
		5e. TASK NUMBER
		5f. WORK UNIT NUMBER
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) **Portage, Inc,1075 S. Utah Ave., Suite 200,Idaho Falls,ID,83402**		8. PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S)
		11. SPONSOR/MONITOR'S REPORT NUMBER(S)

12. DISTRIBUTION/AVAILABILITY STATEMENT
Approved for public release; distribution unlimited

13. SUPPLEMENTARY NOTES
Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 14-17 June 2010 in Denver, CO. U.S. Government or Federal Rights License

14. ABSTRACT

15. SUBJECT TERMS

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT **unclassified**	b. ABSTRACT **unclassified**	c. THIS PAGE **unclassified**	**Same as Report (SAR)**	**14**	

Standard Form 298 (Rev. 8-98)
Prescribed by ANSI Std Z39-18

Agenda

- Background

- Plan/Policies

- Tools

- Afghan Program Components

Background

- **Afghanistan Deployment**
  - **Planning began in June 08**
  - **Significant Challenges**

- **Policies**
  - **Working off draft SOP**
  - **USFOR-A**
  - **CENTCOM Reg 200-2**
- **Personnel = 1**

- **Waste**
  - **Solid Waste**
  - **Wastewater**
  - **Medical Waste**
  - **Hazardous Waste**

- **P2**
  - **80% of HW stream was used oil/antifreeze/batteries**
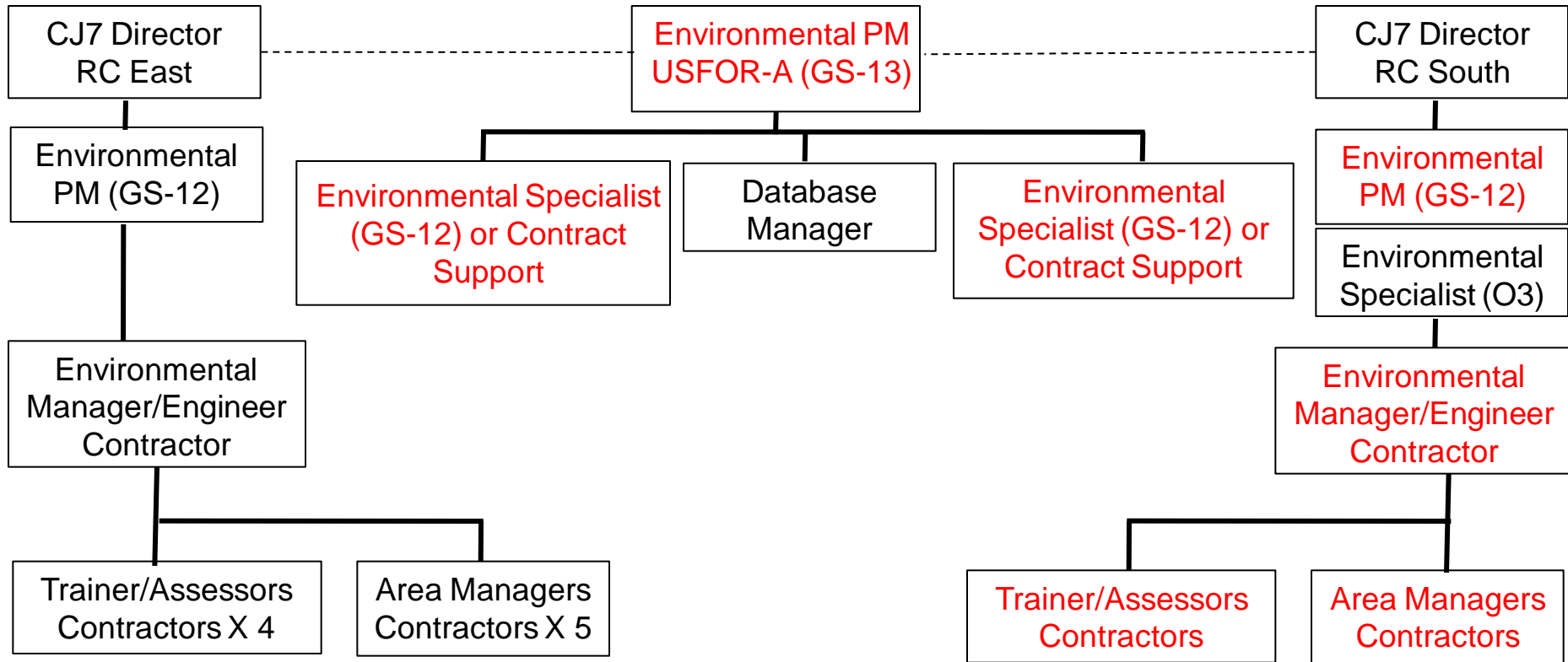 - **No technology to reduce and reuse these waste streams**

Plan

- **Assess what's there**
  - **Staff**
  - **Equipment**
  - **Management Tools**
- **Determine priorities/objectives**
  - **Prioritize Bases**
  - **Staff**
  - **Policy/SOP**
  - **Solid Waste**
  - **Wastewater**
  - **P2 Initiatives**
- **Develop controls/management tools**
  - **Tracking**
  - **Database**
  - **Theater Provided Equipment Property Book**

Afghanistan Program Components

- **Policy/SOP**
- **Staffing**
- **Controls/Management Tools**
- **TPE**
- **Solid Waste**
- **Hazardous Waste (to include Medical Waste)**
- **Wastewater**
- **Database**
- **Pollution Prevention**

Staffing
Sep 09

```
CJ7 Director          Environmental PM              CJ7 Director
RC East     ·········  USFOR-A (GS-13)  ·········    RC South
    |                        |                            |
Environmental      ┌─────────┼─────────┐         Environmental
PM (GS-12)         |         |         |          PM (GS-12)
    |       Environmental  Database  Environmental      |
    |       Specialist     Manager   Specialist   Environmental
    |       (GS-12) or               (GS-12) or   Specialist (O3)
    |       Contract                 Contract           |
    |       Support                  Support      Environmental
Environmental                                     Manager/Engineer
Manager/Engineer                                  Contractor
Contractor                                             |
    |                                          ┌────────┴────────┐
┌───┴────┐                                Trainer/Assessors  Area Managers
Trainer/   Area Managers                  Contractors        Contractors
Assessors  Contractors X 5
Contractors X 4
```

Current Staff (black)

Additional Staff Recommended (red)

Solid Waste

Sep 09

Accomplished:

- **Power Surety TF looking at waste to energy add-ons for incinerators**
- **1 SW incinerator operational 36 mobile, 30 small, 3 Munson; all funded**
- **18 MILCON projects submitted/designed for larger FOBs**

Considerations:

- **Camp Configuration**
- **Camp Location**
- **Capacity (population)**
- **Fuel (delivery and use)**
- **Deployable, simple, and scalable**

Hazardous/Medical Waste

Sep 09

Accomplished:

- **DRMO manages contracts to move waste twice/year through Pakistan to Europe**
- **Petroleum contaminate soil $740 per 55 gallon drum**
- **80% of the waste stream is used oil, lead-acid batteries, and antifreeze**
- **Med Incinerators sufficient at this time**

Considerations:

- **Land Farm (requires real estate)**
- **Recycling (requires market)**
- **Reuse (used oil as fuel)**

Wastewater

Accomplished:

- **Most sites have inadequate treatment systems**
  - UXO/Mines limit usable land in AFG
  - Use local companies to truck sewage off site –fate of material unknown
- **JARB Packets complete for 8 package plants**

Considerations:

- **Contract language**
- **Know where the waste will go and how it is treated**
- **Inspect sites**
- **Deployable, simple, scalable wastewater** systems

Pollution Prevention

Sep 09

Accomplished:

- **Oil Cat – 25 in theater**
- **Antifreeze Recyclers – 17 in theater**
- **Electric cars – 4 used for test**

Considerations:

- **Land farming for enduring camps or portable desorption units for thermal treatment; requires land/planning**
  - **Pollution prevention programs work well and save money**
  - **Antifreeze recycling, fuel/oil blending, battery recovery systems are simple solutions**

Database

Sep 09

Accomplished:

- **Database has been completed and stored on the CJTF SIPR site; working with AKO-S to hang database there**
- **All reports regarding environmental issues, training records, and environmental contacts are submitted to the database manager**
- **Started tracking burn pit locations(open and closed)**

Considerations:

- **Simple system**
- **ISIP is a good idea, but needs to be faster**
- **Report "up" often to maintain data (back up)**
- **Conduct detailed turn over**

Summary

Accomplished:

- **Environmental SOPs/guidance documents/regulations**
- **Staffing needs met in RC East**
- **Training program; developed and transmitted to FORSCOM.**
- **69 solid waste incinerators funded and contract awarded**
- **14 medical waste incinerators; 5 operational; 9 need installed**
- **18 MILCON Projects for waste management complexes**
- **Pollution prevention continues to be pushed**
- **Electric Vehicle proof of concept approved**
- **Eight wastewater package plants**
- **Database complete**

Summary

Way Ahead:

- Environmental staff needed for every deployment; need to determine what "right" looks like
- Implement training program; require environmental officers be identified/assigned at all camps and trained prior to deployment
- Look at the possibility of HAZMARTS to reduce the amount of hazardous wastes generated; look at other P2 processes and equipment
- Wastewater requirements need to be identified early with the mindset that expansion will occur; deployable, simple, and scalable systems
- Consider electric vehicles as normal practice for on-base use during all deployments

Questions